

IN THE SPECIFICATION

Please amend the specification as follows:

The paragraph beginning at page 13 line 27 is amended as follows:

Figure 7 illustrates various layers on other layers. One of ordinary skill in the art will understand how these layers related with each other to provide an operable PDA. In the illustration shown in Figure 7, a hardware abstraction layer 718 is illustrated on the hardware 712 and 714, and a kernel 720 is illustrated on the hardware abstraction layer 718. Both conventional PDA system services 722 and third party, OEM system services such as GPS services 724 are positioned on the hardware abstraction layer 718 ~~on~~ and the kernel 720. PDA system libraries 726 are illustrated on the PDA system services 722 and third party, OEM system libraries 728 such as GPS system libraries are illustrated on the GPS system services 724. An application toolbar 730 is illustrated on the PDA system libraries 726 and the GPS system libraries 728. Various PDA applications 732 and GPS applications 734 can be launched from the application tool bar 730. PDA applications 732 include applications such as an address book application 736 and associated address book data 738. GPS applications include applications such an electronic map application 740 and associated electronic map data 742, a routing application 744, and a guidance application 746. These GPS applications are capable of determining the real time position of a GPS receiver, *i.e.* the PDA device. According to one embodiment, the electronic map data 742 is provided on a map data cartridge such as the map data cartridge 233 shown in Figure 2. According to one embodiment, the electronic map data 742 is provided, at least in part, by a server through a wireless communication channel. According to one embodiment, the calculations associated with routing and guidance applications are provided, at least in part, by a server and are communicated to the PDA through a wireless communication channel. One of ordinary skill in the art will recognize that the integration of GPS capabilities into the PDA architecture 710 can be accomplished at the hardware level 714, the system services level 724, the system library level 728, and/or the applications level 734.

The paragraph beginning at page 16 line 5 is amended as follows:

According to various embodiments, the navigational guidance includes visual guidance that provides turn arrows, text instructions and the like, and voice guidance that provides spoken navigational instructions to reach the waypoint. The following co-pending, commonly-assigned U.S. patent applications relate to guidance and are herein incorporated by reference:

“Navigation System, Method and Device With Automatic Next Turn Page,” ~~attorney docket no. 1528.008US1, serial number~~ [[]] serial number 10/029917 filed December 21, 2001, and “Navigation System, Method and Device With Voice Guidance,” ~~attorney docket no. 1528.009US1, serial number~~ [[]] serial number 10/029732 filed December 21, 2001.

According to one embodiment, the electronic map data is provided to a PDA on a map data cartridge. According to one embodiment, the electronic map data is provided to the PDA, at least in part, by a server through a wireless communication channel between the PDA and the server. According to one embodiment, the calculations associated with routing and guidance applications are provided to the PDA, at least in part, by a server and are communicated to the PDA through a wireless communication channel between the PDA and the server.